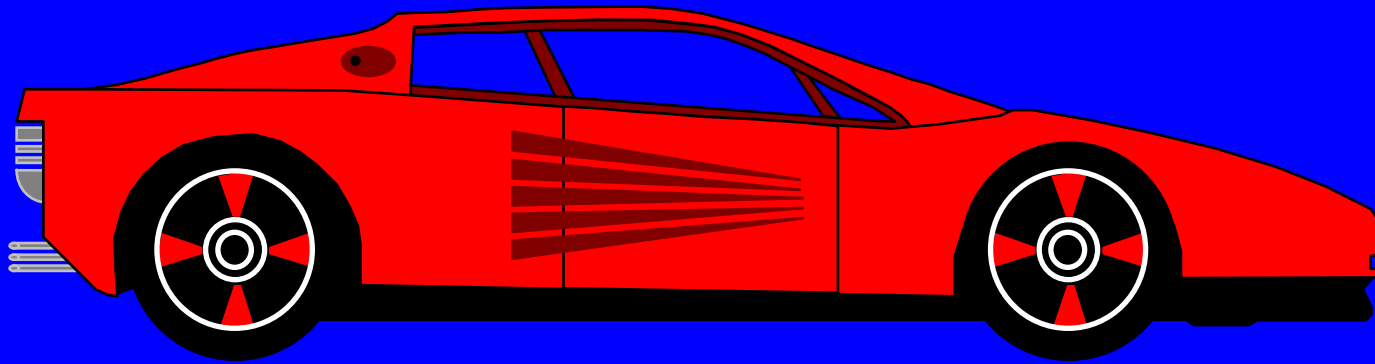


Certification and Fuel Economy Information System (CFEIS)



CFEIS Mission

- Light-Duty Vehicle and Truck (LDVT) Pre-production Certification
- In-Use Verification Program (IUVP)
- Corporate Average Fuel Economy (CAFÉ)
- Regulatory Analysis
- Outreach

CAA Compliance Mandates

- Test or require new vehicles to be tested to demonstrate compliance with emission standards prior to sale. Make test data available to public (Section 206 (a))
- Issue certificates of conformity each year for subject vehicles and engines complying with emission standards in Section 202 (Section 206 (a))
- Test new vehicles to determine whether they conform with the standards to which they were certified. Revoke or suspend certificates when necessary (Section 206(b))
- Determine if properly maintained vehicles conform to Section 202 standards and require manufacturer to remedy any classes non-complying vehicles (Section 207(c))

Three-Tier Compliance Strategy

- Program Goal:
To assure that vehicles are designed and built to meet emission standards for their useful life.
- 3 Program Components:
 - **Pre-Production Evaluation**
 - **Certification**: Emission control design evaluation prior to sale
 - **Production Evaluation**
 - **Selective Enforcement Audits (SEA)**: Assembly line testing for early evaluation of production vehicles
 - IUVP Testing at low mileage
 - **In-Use Evaluation**
 - **In-Use Recall**: Evaluation of properly maintained vehicles after several years of actual use.
 - IUVP Testing at high mileage

Certification Goals

- Prior to production, assure vehicles are designed for emission compliance for their useful life
- Safeguard and disseminate certification information and data
- Certificates of Conformity form the basis for enforcement and testing procedures for the SEA and Recall programs

Fuel Economy Program

- Mandated by Energy Policy and Conservation Act (EPCA) and Gas Guzzler Tax Act
- Four Programs: Labeling, Guide, Gas Guzzler Tax, CAFE
- Applies to LDV's and LDT's only, Gas Guzzler only to LDV's
- EPA defines testing and calculation procedures
- EPA oversees testing; calculates Label values and CAFE's
- EPA reports CAFE values to NHTSA, Gas Guzzler to IRS and Gas Mileage Guide to DOE for publication
- Value added: Large number of tests provide lab correlation and confirm emission compliance. The fuel Economy Programs are a greenhouse emissions control program.

Regulatory Analysis & Outreach

- CFEIS data is used in analyses and modeling studies done in support of new and revised mobile source emissions rules.
- CFEIS data is used in outreach programs, such as educating the public on environmentally sound purchase decisions: Green Vehicle Guide:
<http://www.epa.gov/greenvehicles/>

CFEIS System Stakeholders

- Private citizens
- Regulated industry
- Other EPA programs: Recall, SEA, ...
- Other Federal agencies: NHTSA (CAFE values), IRS (Gas Guzzler), DOE (Gas Mileage Guide)
- Other state & local government entities: especially the California Air Resources Board (CARB)
- NGO's (Sierra Club, ...)

CFEIS System Major Functionality

CFEIS supports the certification and fuel economy processes, including

- the manufacturer interface for the submission and validation of data for the LDVT certification and fuel economy programs, as required by regulation,
- the calculations and logic for determining compliance with the regulations, leading to
- the issuance of a certificate of conformity and fuel economy labels.

CFEIS System Environment

- CFEIS operates on a dedicated SUN SPARC 2000 Mini-computer Server with Sun SPARC workstations.
- CFEIS LAN protocol is TCP/IP
- Operating System on Sun Solaris (Sun's UNIX)
- Database managed by the Oracle Relational Database Management System
- Interface written using html, Oracle Forms and Oracle Reports
- Programs written using C, PL/SQL & SQL*Plus

CFEIS MOSES II Task Order 05

MOSES contract team support

- Guidance on MOSES Contract procedures
- Timely execution of Contract procedures
- Task Order problem resolution assistance
- Administration of award fee process

CFEIS MOSES II Task Order 05

MOSES Contractor support

- MOSES deliverables: Project Plans, MTFPR, ...
- Project management: SEE, CCB, CSSR
- Delivery of the original IOV CFEIS
- Implementation of new regulations: NLEV, CAP 2000
- Business process improvement : EAP, ACGM
- Y2K compliance
- 2nd Tier problem resolution
- System documentation : RTM

CFEIS MOSES III

Requirements

Deliverables as before, and more:

- Congressional / OMB / OEI mandates (508, EVMS, EA, CPIC/300B)
- Essential that CFEIS work products “fit” 300B expectations
- Regulation implementations (CAP 2000, again)
- Business process improvements (digital Certificate of Conformity signature)
- System life cycle issues (SparcCenter 2000 replacement)
- Web access to data vs web mounting of application
- 2nd Tier user problem diagnostics and resolution
- System documentation

CFEIS MOSES III

Requirements

Contract / Project Management:

- Accurate and Complete Project Plan & CSSR Estimates
- Synchronization of Finance Reports to CSSR to Invoices
- Onsite and Remote Support (expands range of potential tasks)

Conclusion : Why Use ESE

- Environmental Systems Engineering expertise in the Agency IT Environment is our prime need.
- Be able to assess and deliver within budget and schedule.